## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/557.351 A
Source:	IFWO
Date Processed by STIC:	12/12/06

# ENTERED



IFWO

RAW SEQUENCE LISTING DATE: 12/18/2006
PATENT APPLICATION: US/10/557,351A TIME: 10:46:00

Input Set: N:\Crf4\12122006\J557351.raw
Output Set: N:\CRF4\12182006\J557351A.raw

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1 <110> APPLICANT: Takada Pharmaceutical Company Limited
 2 <120> TITLE OF INVENTION: Antibody and its use
 3 <130> FILE REFERENCE: G05-0070
 4 <140> CURRENT APPLICATION NUMBER: US/10/557,351A
 5 <141> CURRENT FILING DATE: 2005-11-18
 6 <150> PRIOR APPLICATION NUMBER: JP2003-151577
 7 <151> PRIOR FILING DATE: 2003-05-28
 8 <160> NUMBER OF SEQ ID NOS: 20
10 <210> SEQ ID NO: 1
11 <211> AENGTH: 14
12 <212> TYPE: PRT
13 <213 > ORGANISM: Artificial Sequence
14 <220> FEATURE:
15 <223> OTHER INFORMATION: immunogen
16 <400> SEOUENCE: 1
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                                           : 10
                          5
18
20 <210> SEQ ID NO: 2
21 <211> LENGTH: 14
22 <212> TYPE: PRT
23 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: immunogen
26 <400> SEQUENCE: 2
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28
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31 <211> LENGTH: 16
32 <212> TYPE: PRT
33 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: immunogen
36 <400> SEQUENCE: 3
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37
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                          5
40 <210> SEQ ID NO: 4
41 <211> LENGTH: 23
42 <212> TYPE: PRT
43 <213> ORGANISM: Homo sapiens
44 <400> SEQUENCE: 4
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45
46
                                              10
47
        Ala Gly Leu Leu Met Gly Leu
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### RAW SEQUENCE LISTING DATE: 12/18/2006 PATENT APPLICATION: US/10/557,351A TIME: 10:46:00

Input Set: N:\Crf4\12122006\J557351.raw
Output Set: N:\CRF4\12182006\J557351A.raw

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50 <210> SEQ ID NO: 5
51 <211> LENGTH: 30
52 <212> TYPE: PRT
53 <213> ORGANISM: Homo sapiens
54 <400> SEQUENCE: 5
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55
                                              10
56
57
         Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp
58
                     20
                                          25
60 <210> SEQ ID NO: 6
61 <211> LENGTH: 23
62 <212> TYPE: PRT
63 <213> ORGANISM: Rattus norvegicus
64 <400> SEQUENCE: 6
         Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
                     . 5
                                              10
66
         1
         Ser Gly Leu Leu Met Gly Leu
67
68
70 <210> SEQ ID NO: 7
                       A CONTRACTOR OF THE
71 <211> LENGTH: 30
72 <212> TYPE: PRT
73 <213> ORGANISM: Rattus norvegicus
74 <400> SEQUENCE: 7
75
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76
                                              10
         Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp
77
                     20
                                          25
                                                               30
80 <210> SEQ ID NO: 8
81 <211> LENGTH: 23
82 <212> TYPE: PRT
83 <213> ORGANISM: Mus musculus
84 <400> SEOUENCE: 8
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86
                                              10
         Ser Gly Leu Leu Met Gly Leu
87
88
                     20
90 <210> SEQ ID NO: 9
91 <211> LENGTH: 30
92 <212> TYPE: PRT
93 <213> ORGANISM: Mus musculus
94 <400> SEQUENCE: 9
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96
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97
                                          25
98
                     20
100 <210> SEQ ID NO: 10
101 <211> LENGTH: 23
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102 <212> TYPE: PRT

DATE: 12/18/2006

TIME: 10:46:00

#### Input Set : N:\Crf4\12122006\J557351.raw Output Set: N:\CRF4\12182006\J557351A.raw 103 <213> ORGANISM: Sus scrofa 104 <400> SEQUENCE: 10 Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala 106 5 10 1 Ala Gly Leu Leu Met Gly Leu 107 108 110 <210> SEQ ID NO: 11 111 <211> LENGTH: 30 112 <212> TYPE: PRT 113 <213> ORGANISM: Sus scrofa 114 <400> SEQUENCE: 11 Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala 116 10 117 Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Met Trp 25 118 120 <210> SEQ ID NO: 12 121 <211> LENGTH: 14 122 <212> TYPE: PRT 123 <213> ORGANISM: Artificial Sequence 124 <220> FEATURE: 125 <223> OTHER INFORMATION: Biotin-labeled peptide 126 <220> FEATURE: 127 <221> NAME/KEY: MOD RES 128 <222> LOCATION: 14 129 <223> OTHER INFORMATION: Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide (Vector Laboratories). 130 131 <400> SEQUENCE: 12 Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Xaa W--> 132 133 5 10 135 <210> SEQ ID NO: 13 136 <211> LENGTH: 14 137 <212> TYPE: PRT 138 <213> ORGANISM: Artificial Sequence 139 <220> FEATURE: 140 <223> OTHER INFORMATION: Biotin-labeled peptide 141 <220> FEATURE: 142 <221> NAME/KEY: MOD RES 143 <222> LOCATION: 1 144 <223> OTHER INFORMATION: Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide (Vector Laboratories). 145 146 <400> SEQUENCE: 13 W--> 147 Xaa His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu 5 148 150 <210> SEQ ID NO: 14 151 <211> LENGTH: 16 152 <212> TYPE: PRT 153 <213> ORGANISM: Artificial Sequence 154 <220> FEATURE: 155 <223> OTHER INFORMATION: Biotin-labeled peptide

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/557,351A

RAW SEQUENCE LISTING DATE: 12/18/2006
PATENT APPLICATION: US/10/557,351A TIME: 10:46:00

Input Set : N:\Crf4\12122006\J557351.raw
Output Set: N:\CRF4\12182006\J557351A.raw

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156 <220> FEATURE:
     157 <221> NAME/KEY: MOD RES
     158 <222> LOCATION: 1
     159 <223> OTHER INFORMATION: Xaa means biotin-labeled Cys modified with Biotin (Long Arm)
Maleimide
     160
               (Vector Laboratories).
     161 <400> SEQUENCE: 14
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W--> 162
     163
     165 <210> SEQ ID NO: 15
     166 <211> LENGTH: 328
     167 <212> TYPE: PRT
     168 <213> ORGANISM: Homo sapiens
     169 <400> SEQUENCE: 15
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     170
     171
               Pro Asp Pro Ala Leu Ser Cys Ser Asn Ala Ser Thr Leu Ala Pro Leu
     172
     173
               Pro Ala Pro Leu Ala Val Ala Val Pro Val Val Tyr Ala Val Ile Cys
     174
     175
                                            40
               Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu Leu Arg
     176
     177
                                        55
     178
               Ala Pro Arg Met Lys Thr Val Thr Asn Leu Phe Ile Leu Asn Leu Ala
     179
                                    70
                                                        75
     180
               Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile Ala Asp
     181
                                                    90
               Phe Leu Leu Arg Gln Trp Pro Phe Gly Glu Leu Met Cys Lys Leu Ile
     182
     183
                                                105
     184
               Val Ala Ile Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe Leu Thr
                                            120
     185
               Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala Glu Ser
     186
     187
                                        135
     188
               Arg Arg Val Ala Gly Arg Thr Tyr Ser Ala Ala Arg Ala Val Ser Leu
     189
                                    150
               Ala Val Trp Gly Ile Val Thr Leu Val Val Leu Pro Phe Ala Val Phe
     190
     191
                               165
                                                    170
     192
               Ala Arg Leu Asp Asp Glu Gln Gly Arg Arg Gln Cys Val Leu Val Phe
                                                185
     193
               Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr Thr Leu
     194
     195
                                            200
     196
               Val Leu Gly Phe Ala Ile Pro Val Ser Thr Ile Cys Val Leu Tyr Thr
     197
                                        215
               Thr Leu Leu Cys Arg Leu His Ala Met Arg Leu Asp Ser His Ala Lys
     198
     199
                                    230
                                                        235
               Ala Leu Glu Arg Ala Lys Lys Arg Val Thr Phe Leu Val Val Ala Ile
     200
                               245
                                                    250
     201
               Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser Thr Val
     202
     203
                                                265
     204
               Val Ala Leu Thr Thr Asp Leu Pro Gln Thr Pro Leu Val Ile Ala Ile
     205
                       275
                                            280
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## RAW SEQUENCE LISTING DATE: 12/18/2006 PATENT APPLICATION: US/10/557,351A TIME: 10:46:00

Input Set: N:\Crf4\12122006\J557351.raw
Output Set: N:\CRF4\12182006\J557351A.raw

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Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asn Ser Cys Leu Asn Pro
206
207
             290
                                 295
         Phe Leu Tyr Ala Phe Leu Asp Ala Ser Phe Arg Asn Leu Arg Gln
208
                             310
                                                 315
209
         Leu Ile Thr Cys Arg Ala Ala Ala
210
211
                         325
213 <210> SEQ ID NO: 16
214 <211> LENGTH: 984
215 <212> TYPE: DNA
216 <213> ORGANISM: Homo sapiens
217 <400> SEQUENCE: 16
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219
         ctqaqctqct ccaacqcqtc qactctqqcq ccgctgccgg cgccgctggc ggtggctgta
220
         ccagttgtet acgeggtgat etgegeegtg ggtetggegg geaacteege egtgetgtae
         gtgttgctgc gggcgccccg catgaagacc gtcaccaacc tgttcatcct caacctggcc
221
         ategecgaeg agetetteae getggtgetg eccateaaca tegecgaett eetgetgegg
                                                                            300
222
         cagtggccct tcggggagct catgtgcaag ctcatcgtgg ctatcgacca gtacaacacc
                                                                            360
223
         ttctccagcc tctacttcct caccgtcatg agcgccgacc gctacctggt ggtgttggcc
                                                                            420
224
225
         actgoggagt ogoggogggt ggooggoogc acctacagog oogogogogo ggtgagootg 480
226
         geographing grantegicae actoritoria etgecetter cartettere correctarae
                                                                            540
227
         gacgagcagg gccggcgca gtgcgtgcta gtctttccgc agcccgaggc cttctggtgg
                                                                            600
228
         cgcgcgagcc gcctctacac gctcgtgctg ggcttcgcca tccccgtgtc caccatctgt
         229
230
         gccctggagc gcgccaagaa gcgggtgacc ttcctggtgg tggcaatcct ggcggtgtgc
                                                                            780
231
         ctectetget ggaegeecta ceacetgage accgtggtgg egeteaceae egaeeteeeg
                                                                            840
232
         cagacgeege tggtcatege tatefectae tteateacea geetgageta egeeaaeage
                                                                            960
233
         tgcctcaacc ccttcctcta cgccttcctg gacgccagct tccgcaggaa cctccgccag
                                                                            984
         ctgataactt gccgcgcggc agcc
236 <210> SEQ ID NO: 17
237 <211> LENGTH: 333
238 <212> TYPE: PRT
239 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 17
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242
                                             10
         Ser Leu Pro Thr Met Gly Ala Asn Val Ser Gln Asp Asn Gly Thr Gly
243
244
                                         25
         His Asn Ala Thr Phe Ser Glu Pro Leu Pro Phe Leu Tyr Val Leu Leu
245
246
                                     40
         Pro Ala Val Tyr Ser Gly Ile Cys Ala Val Gly Leu Thr Gly Asn Thr
247
248
                                 55
249
         Ala Val Ile Leu Val Ile Leu Arg Ala Pro Lys Met Lys Thr Val Thr
250
                             70
                                                 75
251
         Asn Val Phe Ile Leu Asn Leu Ala Val Ala Asp Gly Leu Phe Thr Leu
252
         Val Leu Pro Val Asn Ile Ala Glu His Leu Leu Gln Tyr Trp Pro Phe
253
254
255
         Gly Glu Leu Leu Cys Lys Leu Val Leu Ala Val Asp His Tyr Asn Ile
256
                                     120
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/18/2006
PATENT APPLICATION: US/10/557,351A TIME: 10:46:01

Input Set : N:\Crf4\12122006\J557351.raw
Output Set: N:\CRF4\12182006\J557351A.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 14
Seq#:13; Xaa Pos. 1
Seq#:14; Xaa Pos. 1

#### Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:12; Line(s) 129
Seq#:13; Line(s) 144
Seq#:14; Line(s) 159

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/557,351A TIME: 10:46:01

DATE: 12/18/2006

Input Set : N:\Crf4\12122006\J557351.raw
Output Set: N:\CRF4\12182006\J557351A.raw

L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0 L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0